DROP-IN ANCHORS

Bremick Drop-In (wedge) Anchors are single unit, pre assembles, deformation controlled expansion anchors consisting of an internally threaded shell, a precision formed internal tapper and an integral expansion cone . Expansion is achieved by driving the cone with a hammer and proprietary **Setting Tool** forcing the shell against the wall of the hole. Fastening is then achieved by the installation and tightening of a bolt or threaded rod.

Bremick Drop-In Anchors are available with parallel shells or lipped shells that ensure flush installation with the concrete base material.

Bremick Drop-In Anchors are available in Zinc Plated Carbon Steel and 316 Stainless Steel.

APPLICATIONS

Medium Duty internally threaded anchor for shallow embedment applications in concrete and hard natural stone. Commonly used for anchoring threaded rods for the suspension of pipe work and sprinkler supports.

FEATURES

- Simple expansion with hammer blows
- Shallow embedment depth reduces clashes with reinforcement steel.
- Can be loaded immediately after installation.
- Versatile internally threaded deformation controlled expansion anchor.
- Can be deep set below concrete surface.
- Can be flush set
- Suitable for use with bolts or threaded rods of any length

ANCILLARY PRODUCTS CLEANING TOOLS

For further information please refer to the Chemical Injection System section of this book.

BOLTS

For Bolts, Set Screws, Socket Screws and Threaded Rod please refer to the Bremick Industrial Products Catalogue.

SUGGESTED SPECIFICATION

Zinc Plated Drop-In Anchors

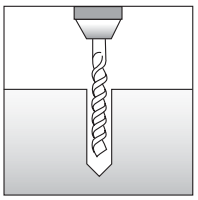
Drop-In anchors shall be a one piece wedge type anchor consisting of an internally threaded sleeve and expansion cone. Anchors shall be manufactured form carbon steel Corrosion protection shall be provided by zinc electroplating plated, anchors and bolts shall be sourced form Bremick Pty Ltd.

Stainless Steel Drop-In Anchors

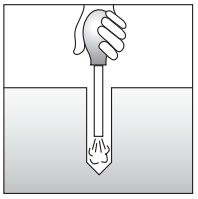
Drop-In anchors shall be a one piece wedge type anchor consisting of an internally threaded sleeve and expansion cone. Anchors shall be manufactured form stainless steel 316, anchors and bolts shall be sourced form Bremick Pty Ltd.

SETTING INSTRUCTIONS

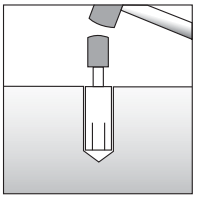
1: Drill
Drill hole in base material to specified diameter and depth.



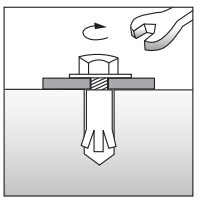
2: Clean
Blow out dust and drilling fragments.



3: Insert
Insert anchor into hole and expand anchor with setting tool and hammer.



4: Set
Mount fixture and fasten with bolt or insert threaded rod for hangers.



ZINC PLATED
AS1789

Hole/Drill Diameter (mm)	Thread Size (mm)	Hole Depth (mm)	Std Pack	Product Code
8	M6	25	100	ADIMZ060002
10	M8	30	50	ADIMZ080002
12	M10	40	50	ADIMZ100002
16	M12	50	25	ADIMZ120002
20	M16	60	20	ADIMZ160002
25	M20	80	10	ADIMZ200002

316 STAINLESS STEEL

Hole/Drill Diameter (mm)	Thread Size (mm)	Hole Depth (mm)	Std Pack	Product Code
8	M6	25	100	ADIM6060002
10	M8	30	50	ADIM6080002
12	M10	40	50	ADIM6100002
16	M12	50	25	ADIM6120002
20	M16	60	20	ADIM6160002

LIPPED DROP-IN ANCHORS ZINC PLATED
AS1789

Hole/Drill Diameter (mm)	Thread Size (mm)	Hole Depth (mm)	Std Pack	Product Code
12	M10	40	50	ADLMZ100002

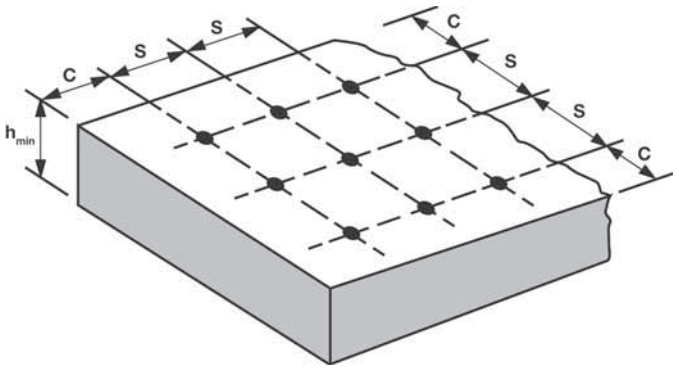
SETTING TOOLS ZINC PLATED

Description	Thread Size	Std Pack	Product Code
Setting tool to suit M6 Drop-in anchor	**M6**	1	TMADIST0602
Setting tool to suit M8 Drop-in anchor	**M8**	1	TMADIST0802
Setting tool to suit M10 Drop-in anchor	**M10**	1	TMADIST0102
Setting tool to suit M12 Drop-in anchor	**M12**	1	TMADIST0122
Setting tool to suit M16 Drop-in anchor	**M16**	1	TMADIST0162
Setting tool to suit M20 Drop-in anchor	**M20**	1	TMADIST0202

DROP-IN ANCHORS & LIPPED DROP-IN ANCHORS ZINC PLATED & 316 STAINLESS STEEL

INSTALLATION DETAILS

FASTENER DETAILS			INSTALLATION DETAILS									
Anchor/ Drill Diameter	Thread Size	Anchor Length	Effective Embedment Depth	Characteristic Anchor Spacing (Tension & Shear)	Characteristic Edge Distance (Tension & Shear)	Minimum Anchor Spacing (Tension & Shear)	Minimum Edge Distance (Tension & Shear)	Minimum Base Material Thickness	Maximum Fixture Thickness	Clearance Hole Diameter (Fixture)	Installation Torque (Concrete)	Width Across Flats
D_o (mm)	D (mm)	L (mm)	h_t (mm)	S_{cr} (mm)	C_{cr} (mm)	S_{min} (mm)	C_{min} (mm)	h_{min} (mm)	t_{fix} (mm)	D_c (mm)	T_{inst} (Nm)	SW (mm)
8	**M6**	**25**	25	80	100	40	65	40	N/A	10	4.5	10
10	**M8**	**30**	30	100	120	50	80	45	N/A	12	11.0	13
12	**M10**	**40**	40	120	145	60	95	60	N/A	14	22.0	16
16	**M12**	**50**	50	160	180	80	130	75	N/A	18	38.0	18
20	**M16**	**60**	60	200	250	100	160	90	N/A	22	95.0	24
25	**M20**	**80**	80	250	300	120	200	120	N/A	27	185.0	30



Notation, Spacing, Edge Distance & Base Material Thickness

DROP-IN ANCHORS & LIPPED DROP-IN ANCHORS ZINC PLATED & 316 STAINLESS STEEL

PERFORMANCE DATA - CONCRETE (RECOMMENDED LOADS)

INSTALLATION DETAILS			RECOMMENDED LOADS IN CONCRETE (Nrec,c/ Vrec,c)									
			25MPa Concrete (fc)		32MPa Concrete (fc)		40MPa Concrete (fc)		50MPa Concrete (fc)		65MPa Concrete (fc)	
Hole/ Drill Diameter (mm)	Major Thread Diameter (mm)	Embedment Depth (mm)	Tension (Nrec,c) KN	Shear (Vrec,c) KN	Tension (Nrec,c) KN	Shear (Vrec,c) KN	Tension (Nrec,c) KN	Shear (Vrec,c) KN	Tension (Nrec,c) KN	Shear (Vrec,c) KN	Tension (Nrec,c) KN	Shear (Vrec,c) KN
8	M6	**25**	3.2	2.2	3.6	2.5	4.1	2.8	4.5	3.1	5.2	3.5
10	M8	**30**	3.5	2.7	4.0	3.1	4.5	3.5	4.9	3.8	5.7	4.4
12	M10	**40**	5.3	4.1	6.1	4.6	6.9	5.2	7.5	5.7	8.7	6.6
16	M12	**50**	7.8	8.3	8.9	9.4	10.1	10.6	11.0	11.6	12.8	13.4
20	M16	**60**	11.8	12.5	13.5	14.3	15.3	16.1	16.7	17.6	19.3	20.4
25	M20	**80**	16.5	17.6	18.8	20.0	21.3	22.6	23.2	24.7	26.9	28.6

All above Values are Design Values for anchors installed in concrete with anchors installed at characteristic embedment depths, as shown.
Recommended Loads have been derived with a Safety factor of 4.
All Shear Values are Single Shear.

For further performance data, including Characteristic, Working Stress, Limit State Design Values and design data please refer to our Web Site www.bremick.com.au